## **Claims**

What is claimed is:

- An apparatus for facilitating speaker identification, said apparatus comprising:
  an arrangement for accepting input speech;
- an arrangement for generating at least one N-best list based on the input speech; an arrangement for positing a system output based on the input speech; and an arrangement for ascertaining, via at least one property of the N-best list, whether the posited system output is inconclusive.
  - 2. The apparatus according to Claim 1, wherein said ascertaining arrangement is adapted to ascertain, via at least one statistical property of the at least one N-best list, whether the posited system output is inconclusive.
  - 3. The apparatus according to Claim 2, wherein said ascertaining arrangement is adapted to generate at least two statistical models of the at least one N-best list in ascertaining whether the posited system output is inconclusive.

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- 4. The apparatus according to Claim 3, wherein said ascertaining arrangement is adapted to combine results from the at least two statistical models to yield a confidence measure in ascertaining whether the posited system output is inconclusive.
- 5. The apparatus according to Claim 4, wherein said ascertaining arrangement is adapted to compare the confidence measure to a threshold value to determine whether the posited system output is inconclusive.
  - 6. The apparatus according to Claim 5, wherein said ascertaining arrangement is further adapted to prompt the collection of additional input speech from the same speaker and reevaluate whether a new posited system output relating to the additional input speech is inconclusive.
  - 7. The apparatus according to Claim 3, wherein one of said at least two statistical models relates to scores in the at least one N-best list.
  - 8. The apparatus according to Claim 7, wherein said one of said at least two statistical models involves the calculation of a ratio of Gaussian densities relating to scores in the at least one N-best list.
  - 9. The apparatus according to Claim 3, wherein one of said at least two statistical models relates to identities in the at least one N-best list.

- 10. The apparatus according to Claim 9, wherein said one of said at least two statistical models involves the estimation of the likelihood of identities in the at least one N-best list.
- 11. A method of facilitating speaker identification, said method comprising the5 steps of:

accepting input speech;

generating at least one N-best list based on the input speech;

positing a system output based on the input speech; and

ascertaining, via at least one property of the N-best list, whether the posited system output is inconclusive.

- 12. The method according to Claim 11, wherein said ascertaining step comprises ascertaining, via at least one statistical property of the at least one N-best list, whether the posited system output is inconclusive.
- 13. The method according to Claim 12, wherein said ascertaining step comprises
  generating at least two statistical models of the at least one N-best list in ascertaining
  whether the posited system output is inconclusive.

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- 14. The method according to Claim 13, wherein said ascertaining step comprises combining results from the at least two statistical models to yield a confidence measure in ascertaining whether the posited system output is inconclusive.
- 15. The method according to Claim 14, wherein said ascertaining step comprises comparing the confidence measure to a threshold value to determine whether the posited system output is inconclusive.
  - 16. The method according to Claim 15, wherein said ascertaining step comprises prompting the collection of additional input speech from the same speaker and reevaluating whether a new posited system output relating to the additional input speech is inconclusive.
  - 17. The method according to Claim 13, wherein one of said at least two statistical models relates to scores in the at least one N-best list.
  - 18. The method according to Claim 17, wherein said one of said at least two statistical models involves the calculation of a ratio of Gaussian densities relating to scores in the at least one N-best list.
  - 19. The method according to Claim 13, wherein one of said at least two statistical models relates to identities in the at least one N-best list.

- 20. The method according to Claim 19, wherein said one of said at least two statistical models involves the estimation of the likelihood of identities in the at least one N-best list.
- 21. A program storage device readable by machine, tangibly embodying a
  program of instructions executable by the machine to perform method steps for facilitating speaker identification, said method comprising the steps of:

accepting input speech;

generating at least one N-best list based on the input speech;

positing a system output based on the input speech; and

ascertaining, via at least one property of the N-best list, whether the posited system output is inconclusive.